

MANSI GAJJAR

Aspiring Software & Web Developer

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PROFESSIONAL SUMMARY

Highly motivated and detail-oriented software and web developer with a strong foundation in programming, databases, and modern web technologies. Adept at building robust, scalable backend systems and crafting smooth, intuitive user interfaces. Passionate about solving complex problems, writing clean maintainable code, and delivering reliable end-to-end digital solutions. Currently pursuing M.Sc. IT with a consistent academic record, complemented by hands-on experience through self-initiated real-world projects.

EDUCATION

M.Sc. Information Technology

2024 – 2026

Shree P. M. Patel Institute of PG Studies and Research in Applied Science, Anand

- Semester I GPA: 8.24 | Semester II GPA: 8.08 | Semester III GPA: 8.24 | Semester IV Not Declared Yet
- Relevant coursework: Advanced Algorithms, Database Management, Web Technologies, Mobile Application Development, Software Engineering

Bachelor of Computer Application (BCA)

2021 – 2024

Shree P. M. Patel College of Computer Science & Technology, Anand

- Graduated with a focus on computer programming, database systems, and application development
- Built a strong foundation in C/C++, Java, PHP, and web technologies during the programme

TECHNICAL SKILLS

Languages	C, C++, Java, Python, PHP, C# (.NET), TypeScript
Web Technologies	HTML5, CSS3, JavaScript (ES6+), ASP.NET, Next.js (React), Laravel, Tailwind CSS
Databases	MySQL, SQL Server
Mobile	Android Development (Java)
Tools & Platforms	Git, GitHub, VS Code, Anti Gravity, XAMPP, Android Studio, Vercel, Draw.io
Soft Skills	Problem-solving, Adaptability, Teamwork, Attention to Detail, Communication

PROJECTS

SSM Future Innovation FZE

Next.js | TypeScript | Tailwind CSS

Work Experience ssmfutureinnovationfze.com

- Contributed to the development of a professional corporate web application for SSM Future Innovation FZE, a live production site serving real business clients.
- Technology Stack: Built with Next.js (React framework) and TypeScript, ensuring type-safe, maintainable, and scalable code across all components.
- Styling & Responsiveness: Implemented modern, pixel-perfect UI using Tailwind CSS utility classes, ensuring fully responsive layouts across all screen sizes and devices.
- Implementation Logic: Handled core frontend implementation including dynamic routing, component architecture, and data-fetching strategies using Next.js built-in capabilities (SSR/SSG).
- Performance & Scalability: Ensured robust performance by following Next.js best practices for code-splitting, lazy loading, and optimised asset delivery.

- Gained hands-on professional experience working on a client-facing product, collaborating on a real-world codebase with production deployment requirements.

IAPES System

Laravel | PHP | Blade

Live Demo: techstrota.tech

- Developed a robust, full-featured web application using the Laravel PHP framework, following the MVC (Model-View-Controller) architecture pattern for clean code separation.
- Routing & Controllers: Leveraged Laravel's expressive routing engine to define clean RESTful routes and controllers, handling all CRUD operations with minimal boilerplate.
- Database & ORM: Used Laravel's Eloquent ORM for scalable, readable database management — defining relationships, query scopes, and migrations for a well-structured schema.
- Blade Templating: Built dynamic, reusable UI components using Laravel's Blade templating engine, enabling DRY (Don't Repeat Yourself) front-end architecture.
- Security: Implemented Laravel's built-in security features including CSRF protection, input validation, authentication guards, and middleware-based access control.
- Deployment: Successfully deployed the application to a live hosting environment, managing server configuration and ensuring production stability.

Attendance Management System

PHP | MySQL | JavaScript

- Designed and developed a full-stack attendance management system from scratch, handling the complete software development lifecycle from requirements analysis to deployment.
- Architecture & Role-Based Access: Implemented three distinct role-based dashboards — Admin, Teacher, and Student — each with tailored views, permissions, and functionality to ensure data privacy and access control.
- Admin Panel: Enables management of departments, courses, teachers, and student enrollment. Admin can generate institution-wide attendance reports and manage the entire user base.
- Teacher Panel: Allows teachers to mark attendance session-by-session, view subject-wise attendance history, and generate class reports with date-range filtering.
- Student Panel: Provides students with a personal attendance dashboard showing attendance percentage per subject, with colour-coded status indicators (e.g., below 75% alerts).
- Real-Time Reporting: Built dynamic reporting features that aggregate attendance data in real time, rendering charts and percentage summaries without page reload using AJAX.
- Database Design: Designed a normalised relational schema in MySQL covering users, roles, courses, sessions, and attendance records, ensuring data integrity and query efficiency.
- Security: Implemented secure session-based authentication, input sanitisation, and SQL injection prevention using prepared statements.
- UI/UX: Designed a responsive interface using CSS Grid and Flexbox, compatible across desktop and mobile devices, with a clean dashboard aesthetic.

Real-Time Chat Application

PHP | MySQL | JavaScript

- Built a browser-based real-time chat platform enabling instant peer-to-peer messaging without requiring native app installation.
- Authentication System: Designed a secure user registration and login flow with hashed password storage, session tokens, and automatic redirect for authenticated users.
- Messaging Engine: Implemented real-time message delivery using AJAX long-polling, ensuring messages appear instantly on both sender and receiver sides without full-page refresh.
- Chat Interface: Developed a modern chat UI with message timestamps, sender identification, read indicators, and auto-scroll to the latest message.
- Session Management: Used PHP sessions to track logged-in users and restrict access to chat features for unauthenticated visitors, with automatic session expiry for security.
- Database Layer: Designed an efficient MySQL schema for storing users, chat rooms, and message threads, with indexed queries for fast message retrieval.
- Multi-User Support: The platform supports multiple simultaneous users chatting concurrently, with server-side logic handling message routing between participants.

Quiz Up Platform

ASP.NET | C# | SQL Server

- Developed a dynamic, interactive online quiz platform using ASP.NET Web Forms and C#, targeting educational institutions and training environments.
- User Registration & Profiles: Built a complete user registration system with profile management, allowing users to track their quiz history and performance over time.
- Dynamic Quiz Creation: Implemented an admin interface for creating and managing quizzes, supporting multiple question types (multiple choice, true/false), configurable time limits, and category tagging.
- Scoring Engine: Designed a complex server-side scoring algorithm in C# that evaluates responses, applies partial-credit logic, and calculates final scores with detailed per-question feedback.
- Result Tracking & Analytics: Built a results dashboard showing score history, average performance per category, and comparative rankings among registered users.
- SQL Server Backend: Designed a robust relational schema in SQL Server to manage users, quizzes, questions, options, and results, using stored procedures for secure and performant data operations.
- Session & State Management: Used ASP.NET session state to preserve quiz progress across page navigation, preventing data loss during active quiz sessions.
- Access Control: Implemented role-based access distinguishing between Quiz Administrators (who create/manage quizzes) and Participants (who take quizzes and view results).

ACHIEVEMENTS & ACTIVITIES

- Maintained a consistent GPA above 8.0 across both semesters of M.Sc. IT.
- Self-deployed multiple web projects on live hosting environments, demonstrating end-to-end deployment skills.
- Actively maintains a professional online portfolio and LinkedIn profile showcasing projects and academic progress.
- Participated in departmental seminars and workshops on web technologies and software development best practices.

LANGUAGES

- English — Professional Working Proficiency
 - Gujarati — Native
 - Hindi — Fluent
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